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Synonymy of the Species of STREPOMATIDÆ, a Family of Fluvatile Mollusca inhabiting North America.

Part 2.

BY GEORGE W. TRYON, JR.

Goniobasis Section.

Genus GONIOBASIS, Lea.

- Goniobasis*, Lea, Proc. Acad. Nat. Sci. p. 262, May, 1862. Journ. Acad. Nat. Sci. v. pt. 3, p. 217, March, 1863. Obs. ix. p. 39.
Ceriphasia, Swainson, (sp.) H. and A. Adams, Genera i. p. 298, Feb. 1854. Chenu, Man. de Conchyl. i. p. 290, 1859.
Pachycheilus, Lea, (sp.) H. and A. Adams, Genera i. p. 298, Feb. 1854.
Potadoma, Swainson, (sp.) H. and A. Adams, Genera i. p. 299, Feb. 1854. Chenu, Man. de Conchyl. i. p. 290, 1859.
Elimia, (sp.) H. and A. Adams, Genera i. p. 300, Feb. 1854. Chenu, Man. de Conchyl. i. p. 292, 1859.
Melasma, (sp.) H. and A. Adams, Genera i. p. 300, Feb. 1854. Chenu, Man. de Conchyl. i. p. 292, 1859.
Hemisinus, Swainson, (sp.) H. and A. Adams, Genera i. p. 302, Feb. 1854.
Juga, (sp.) H. and A. Adams, Genera i. p. 304, Feb. 1854. Chenu, Man. de Conchyl. i. p. 293, 1859.
Megara, (sp.) H. and A. Adams, Genera i. p. 306, Feb. 1854. Chenu, Man. de Conchyl. i. p. 293, 1859.
Pleurocera, Rafinesque, Haldeman, Proc. Acad. Nat. Sci. p. 274, 1863.
Melania, (sp.) Auct.*

SPECIES.

A. *Shell spirally ridged.*

1. *G. procissa*, Anthony.†
Melania procissa, Anthony, Ann. Lyc. Nat. Hist. N. Y. vi. p. 109, t. 3, f. 9, March, 1854. Binney, Check List, No. 218. Brot, List, p. 59. Reeve, Monog. Melania, sp. 342.

B. *Shell tuberculate or nodulous.*

2. *G. gratiosa*, Lea.
Melania gratiosa, Lea, Proc. Acad. Nat. Sci. p. 122, May, 1861.
Goniobasis gratiosa, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 241, t. 35, f. 43, March, 1863. Obs. ix. p. 63.
2a. *G. lachryma*, Anthony.‡
Melania lachryma, Anthony, Reeve, Monog. Melania, sp. 473, May, 1861. Brot, List, p. 32.
3. *G. gibberosa*, Lea.
Goniobasis gibberosa, Lea, Proc. Acad. Nat. Sci. p. 266, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 312, t. 37, f. 155, March, 1863. Obs. ix. p. 134, t. 37, f. 155.

* Mr. Lea is the first naturalist who has properly defined this genus, and his name *Goniobasis* must therefore stand, in preference to any of the prior names given to artificial sections by the Messrs. Adams.

Of course these gentlemen are wrong in including species of this genus in the genera *Pachycheilus*, *Ceriphasia*, *Potadoma* and *Hemisinus*, which are all intended to embrace very different groups of species. Prof. Haldeman is also mistaken in placing here the *Pleurocera* of Rafinesque, a genus which undoubtedly = *Trypanostoma*, Lea.

† This may be only an elevated form of *Anculosa canalifera*, Anthony.

‡ This species and the preceding (*gratiosa*) are identical. Both descriptions bear the same date of publication, and I am therefore unable to decide which has priority.

[Feb.

4. *G. nubila*, Lea.*
Melania nubila, Lea, Proc. Acad. Nat. Sci. p. 118, 1861.
Goniobasis nubila, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 235, March, 1863.
 Obs. ix. p. 57.
5. *G. varians*, Lea.†
Melania varians, Lea, Proc. Acad. Nat. Sci. p. 120, 1861.
Goniobasis varians, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 219, t. 34, f. 2,
 March, 1863. Obs. ix. p. 41.
6. *G. Hydei*, Conrad.
Melania Hydei, Conrad, New Fresh-Water Shells, p. 50, t. 8, f. 1, 1834.
 Reeve, Monog. Melania, sp. 248. DeKay, Moll. N. York, p. 93. Wheat-
 ley, Cat. Shells U. S. p. 25. Binney, Check List, No. 141.
Melania Hydei, Conrad, Jay, Cat. Shells, 4th edit. p. 273. Brot, List, p. 32.
 Hanley, Conch. Misc. t. 1, f. 3.
Melania Hydei, Conrad, Catlow, Conch. Nomenc. p. 187.
7. *G. decorata*, Anthony.
Melania decorata, Anthony, Proc. Acad. Nat. Sci. p. 55, Feb. 1860. Reeve,
 Monog. Melania, sp. 251. Binney, Check List, No. 86. Brot, List, p. 32.
Goniobasis Tryoniana,‡ Lea, Proc. Acad. Nat. Sci. p. 272, 1862. Jour. Acad.
 Nat. Sci. v. pt. 3, p. 342, t. 38, f. 207, March, 1863. Obs. ix. p. 164,
 t. 38, f. 207.
Goniobasis granata, Lea, Proc. Acad. Nat. Sci. p. 272, 1862. Jour. Acad.
 Nat. Sci. v. pt. 3, p. 343, t. 38, f. 209, March, 1863. Obs. ix. p. 165.
8. *G. cælatura*, Conrad.
Melania cælatura, Conrad, Proc. Acad. Nat. Sci. iv. p. 154, Feb. 1849. Journ.
 Acad. Nat. Sci. i. pt. 4, p. 278, t. 38, f. 3, Jan. 1850. Binney, Check
 List, No. 58. Brot, List, p. 32. Reeve, Monog. Melania, sp. 245.
Goniobasis Stewardsoniana,§ Lea, Proc. Acad. Nat. Sci. p. 272, 1862. Jour.
 Acad. Nat. Sci. v. pt. 3, p. 344, t. 38, f. 210, March, 1863. Obs. ix.
 p. 166.
Goniobasis Tryoniana, Lea, Description in part.
9. *G. occata*, Hinds.
Melania occata, Hinds, Ann. and Mag. Nat. Hist. xiv. p. 9. Zool. Voy.
 Sulphur. Mollusca, ii. p. 56, t. 15, f. 5. Catlow, Conch. Nomenc. p. 188.
 Brot, List, p. 34. Lea, Proc. Acad. Nat. Sci. p. 81, April, 1856. Reeve,
 Monog. Melania, sp. 267.
Juga occata, Hinds, Chenu, Man. de Cochyl. i. f. 2016.
Melania Shastaensis,|| Lea, Reeve, Monog. Melania, sp. 318.
10. *G. catenaria*, Say.
Melania catenaria, Say, Jour. Acad. Nat. Sci. ii. p. 379, Dec. 1822. Binney,
 Reprint, p. 111. Binney, Check List, No. 52. Reeve, Monog. Melania,
 sp. 336. DeKay, Moll. N. York, p. 93. Wheatley, Cat. Shells U. S.
 p. 24. Gibbes, Rep't. S. Carolina, p. 19. Jay, Cat. 4th edit. p. 273.
 Catlow, Conch. Nomenc. p. 185. Brot, List, p. 34.

* Closely allied to *G. oliva*, Lea, but is larger, longer and tuberculate.

† Nearly always tuberculate, and shouldered below the sutures.

‡ *G. decorata* is a young shell, and, as is usual in this group, is sharply angulated at the periphery. *G. granata* represents a half grown shell, and here the angle is almost obsolete, while *G. Tryoniana* is the mature form. The entire identity of these several descriptions is proved by a series of over two hundred specimens before me.

Mr. Lea's figure of *Tryoniana* belongs here, but his description of that species is made to include the next species, *cælatura*, Conr. The green variety of *granata* is a shell of much heavier texture, and may prove distinct.

§ Half grown shell of *cælatura*.

|| The *Shastaensis* of Mr. Lea is a very different shell, and certainly ought never to have been confounded with this species, which it does not resemble in any particular.

- Melania subvirata*,* Conrad, Jour. Acad. Nat. Sci. 2d ser. i. pt. 4, p. 277, t. 38, f. 1, Jan. 1850. Brot, List, p. 37. Reeve, Monog. Melania, sp. 339.
- Melania Floridensis*,† Reeve, Monog. Melania, sp. 334. Brot, List, p. 34.
11. *G. catenoides*,‡ Lea.
Melania catenaria, Lea, Proc. Philos. Soc. i. p. 289, Oct. 1840, (preoc.)
Melania catenoides, Lea, Philos. Trans. viii. p. 228, t. 6, f. 60. Obs. iii. p. 66. DeKay, Moll. N. Y. p. 101. Wheatley, Cat. Shells U. S. p. 24. Jay, Cat., 4th edit., p. 273. Binney, Check List, No. 53. Catlow, Conch. Nomenc. p. 185. Brot, List, p. 34. Reeve, Monog. Melania, sp. 298.
Elimia catenoides, Lea, Chenu, Man. de Conchyl. i. f. 1982.
12. *G. Etowahensis*, Lea.§
Melania Etowahensis, Lea, Reeve, Monog. Mel. sp. 426, May, 1861. Brot, List, p. .
Goniobasis Canbyi, Lea, Proc. Acad. Nat. Sci. p. 271, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 340, t. 38, f. 204, March, 1863. Obs. ix. p. 162.
13. *G. Hallenbeckii*, Lea.||
Goniobasis Hallenbeckii, Lea, Proc. Acad. Nat. Sci. p. 271, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 339, t. 38, f. 203, March, 1863. Obs., ix. p. 161.
Melania Hallenbeckii, Lea, Reeve, Monog. Melania, sp. 332.
14. *G. Boykiniana*, Lea.
Melania Boykiniana, Lea, Proc. Philos. Soc. i. p. 289, Oct. 1840. Philos. Trans. viii. p. 228, t. 6, f. 59. Obs. iii. p. 66. DeKay, Moll. N. Y., p. 100. Wheatley, Cat. Shells U. S. p. 24. Reeve, Monog. Melania, sp. 77. Jay, Cat. Shells, 4th edit. p. 273. Binney, Check List, No. 37. Catlow, Conch. Nomenc., p. 185. Brot, List, p. 34.
Elimia Boykiniana, Lea, Chenu, Man. de Conchyl. i. f. 1978.
15. *G. Bentoniensis*, Lea.¶
Goniobasis Bentoniensis, Lea, Proc. Acad. Nat. Sci. p. 271, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 336, t. 38, f. 198, March, 1863. Obs. ix. p. 158.
16. *G. papillosa*, Anthony.
Melania papillosa, Anthony, Reeve, Monog. Melania, sp. 467, May, 1861. Brot, List, p. 34.
Goniobasis Downiana, Lea, Proc. Acad. Nat. Sci. p. 272, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 341, t. 38, f. 206, March, 1863. Obs. ix. p. 163.
17. *G. Couperii*, Lea.
Goniobasis Couperii, Lea, Proc. Acad. Nat. Sci. p. 271, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 341, t. 38, f. 203, March, 1863. Obs. ix. p. 163.
18. *G. inclinans*, Lea.
Goniobasis inclinans, Lea, Proc. Acad. Nat. Sci. p. 267, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 318, t. 37, f. 166, March, 1863. Obs. ix. p. 140.

* † I have seen several author's examples of *catenaria*. and they uniformly represent shells not adult. As I have not seen specimens of *subvirata* and *Floridensis*, I rely on the figures and descriptions only, in considering them to be the adults of the same species.

‡ *G. catenoides* may prove to be a variety only of *catenaria* and I at first united them, but I have recently come to the conclusion that they are distinct species, though nearly allied.

§ I presume it was Mr. Lea's first intention to describe this species under the name of *Etowahensis*, as a specimen is before me which that gentlemen sent to Mr. Anthony under that name. This very specimen was sent to Mr. Reeve and published by him, prior to the publication of *Canbyi* by Mr. Lea.

|| It is extremely difficult to distinguish this species from varieties of *papillosa*, Anth.

¶ Dr. Brot considers this a synonym of *Boykiniana*, but it is very different.

¶ Doubtfully distinct from *papillosa*, Anth.

19. *G. Postellii*, Lea.
Melania Postellii, Lea, Proc. Acad. Nat. Sci. p. 166, July, 1858. Binney, Check List, No. 214. Brot, List, p. 34.
Melania Portellii, Lea, Reeve, Monog. Melania, sp. 427.
Goniobasis Postellii, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 343, t. 38, f. 208, March, 1863. Obs. ix. p. 165.
20. *G. arachnoidea*, Anthony.
Melania arachnoidea, Anthony, Ann. Lyc. Nat. Hist. N. Y., vi. p. 95, t. 2, f. 14, March, 1854. Binney, Check List, No. 19. Brot, List, p. 34. Reeve, Monog. Melania, sp. 83.
Melania intertexta, Anthony,* Proc. Acad. Nat. Sci., p. 62, February, 1860. Binney, Check List, No. 151. Brot, List, p. 34. Reeve, Monog. Melani, sp. 296.
21. *G. Conradii*, Brot.†
Melania Conradii, Brot, List, p. 36.
Melania symmetrica, Conrad, Proc. Acad. Nat. Sci., iv. p. 155, Feb., 1849. Journ. Acad. Nat. Sci., i. pt. 4, p. 278, t. 38, f. 5, Jan., 1850. Binney, Check List, No. 260.
22. *G. carinifera*, Lam.
Melania carinifera, Lamarck, Anim. sans Vert. Deshayes, Anim. sans Vert., 2d edit., viii. p. 433. Wheatley, Cat. Shells U. S., p. 24. Binney, Check List, No. 48. Catlow, Conch. Nomenc., p. 185. Brot, List, p. 36. Reeve, Monog. Melania, sp. 273.
Melania bella,‡ Conrad, New Fresh-Water Shells, Appendix, p. 6, t. 9, f. 4, 1834. Binney, Check List, No. 29. Brot, List, p. 36. Reeve, Monog. Melania, sp. 269.
Melania perangulata, Conrad, Proc. Acad. Nat. Sci., iv. p. 154, Feb., 1849. Jour. Acad. Nat. Sci., i. pt. 4, p. 278, t. 38, f. 6. Binney, Check List, No. 199. Brot, List, p. 36. Reeve, Monog. Melania, sp. 285.
Melania percarinata, Conrad, Proc. Acad. Nat. Sci., iv. p. 155, Feb., 1849. Jour. Acad. Nat. Sci., 2d ser., i. pt. 4, p. 278, t. 38, f. 10. Binney, Check List, No. 200. Brot, List, p. 36.
Melania nebulosa, Conrad, Proc. Acad. Nat. Sci., iv. p. 155, Feb., 1849. Jour. Acad. Nat. Sci., i. pt. 4, p. 278, t. 38, f. 9. Binney, Check List, No. 172. Brot, List, p. 36.
Melania bella-crenata, Haldeman, Monog. Limniades, No. 4, p. 3 of cover, Oct. 5, 1841. Jay, Cat., 4th ed., p. 273. Binney, Check List, No. 30. Brot, List, p. 36.
Melania monilifera, Anthony, Jay, Cat., 4th ed., p. 474.
- C. Shell plicate.*
23. *G. obesa*, Anthony.
Melania obesa, Anthony, Reeve, Monog. Melania, sp. 469, May, 1861. Brot, List, p. 33.
24. *G. blanda*, Lea.§
Melania blanda, Lea, Proc. Acad. Nat. Sci., p. 122, 1861.
Goniobasis blanda, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 242, t. 35, f. 44, March, 1863. Obs. ix. p. 64, t. 35, f. 44.

* Half-grown shell.

† Dr. Brot proposed the name *Conradi* for this species, as *symmetrica* is preoccupied by Prof. Haldeman. I doubt whether it is distinct from *G. carinifera*, Lam.

‡ That all the species here quoted are synonyms of *carinifera* does not admit of doubt. The species is rather a variable one in respect of proportions and ornamentation.

§ The name of this species must be changed because preoccupied by Mr. Lea himself.

25. *G. substricta*, Haldeman.*
Melania substricta, Haldeman, Monog. Limniades, vii. p. 4 of cover, Jan., 1844. Wheatley, Cat. Shells U. S., p. 27. Binney, Check List, No. 256. Brot, List, p. 36.
26. *G. aequalis*, Haldeman.†
Melania aequalis, Haldeman, Monog. Limniades, No. 4, p. 3 of cover, Oct. 5, 1841. Jay, Cat, 4th ed., p. 272. Binney, Check List, No. 7.
27. *G. semigradata*, Reeve.
Melania semigradata, Reeve, Monog. Melania, sp. 472, May, 1861. Brot, List, p. 33.
28. *G. carinocostata*,‡ Lea.
Melania carinocostata, Lea, Philos. Proc., iv. p. 165, 1845. Philos. Trans., x. p. 62, t. 9, f. 40. Obs. iv. p. 62. Binney, Check List, No. 49. Brot, List, p. 35. Reeve, Monog. Melania, sp. 333.
Goniobasis strenua, Lea, Proc. Acad. Nat. Sci., p. 267, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 316, t. 37, f. 161, March, 1863. Obs. ix. p. 138.
Goniobasis Leidyana, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 322, t. 38, f. 173, March, 1863. Obs. ix. p. 144.
Melania scabrella, Anthony, Reeve, Monog. Melania, sp. 388.
Melania scabriuscula, Brot, List, p. 36.
29. *G. Lecontiana*,§ Lea.
Melania Lecontiana, Lea, Philos. Proc., ii. p. 13, Feb. 1841. Philos. Trans., viii. p. 177, t. 5, f. 29. Dekay, Moll. N. York, p. 96. Wheatley, Cat. Shells U. S., p. 26. Brot, List, p. 35. Jay, Cat., 4th edit., p. 274. Binney, Check List, No. 160. Catlow, Conch. Nomenc., p. 187.
Melasma Lecontiana, Lea, Chenu, Man. Conchyl., i. f. 2002.
30. *G. cadus*, Lea.||
Goniobasis cadus, Lea, Proc. Acad. Nat. Sci., p. 272, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 345, t. 38, f. 211, March, 1863. Obs. ix. p. 167.
31. *G. obtusa*, Lea.¶
Melania obtusa, Lea, Philos. Proc., ii. p. 13, Feb., 1841. Philos. Trans., viii. p. 176, t. 5, f. 28. Obs. iii. p. 14. Dekay, Moll. New York, p. 96. Binney, Check List, No. 183. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 26. Catlow, Conch. Nomenc., p. 188. Brot, List, p. 59.
32. *G. amoena*, Lea.
Goniobasis amoena, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 323, t. 38, f. 175, March, 1863. Obs. ix. p. 145, t. 38, f. 175.
33. *G. Tuomeyi*, Lea.
Goniobasis Tuomeyi, Lea, Proc. Acad. Nat. Sci., p. 266, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 311, t. 37, f. 153, March, 1863. Obs. ix. p. 133.

* Somewhat like *gracilis*, Lea, but is a stouter, more ponderous species.

† Allied to *carinocostata*, Lea, but in that species the plicæ are terminated by an acute angle or rib on the body whorl and the spire is angled or carinate.

‡ A very variable species. The *M. scabrella* of Anthony is a half-grown shell; in which state the plicæ and carinæ are more distinct than in the adult form. *Scabrella* being preoccupied by an European author, M. Brot changed the name to *scabriuscula*.

§ Mr. Reeve's figure 404 does not represent this species; it is nearer to *decorata*, Anthony. This shell is closely allied to *carinocostata* and *aequalis*.

|| Allied to *G. obtusa*, but appears to differ in not being so closely plicate as that species. It may possibly = *Lecontiana*.

¶ Is this the young shell of *cadus* or *carinocostata*?

34. *G. Christyi*, Lea.
Goniobasis Christyi, Lea, Proc. Acad. Nat. Sci., p. 269, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 328, t. 38, f. 185, March, 1863. Obs. ix. p. 150.
Goniobasis instabilis, Lea, Proc. Acad. Nat. Sci., p. 269, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 329, t. 38, f. 186, March, 1863. Obs. ix. p. 151.
35. *G. interveniens*, Lea.*
Goniobasis interveniens, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 320, t. 38, f. 169, March, 1863. Obs. ix. p. 142.
36. *G. olivella*, Lea.
Goniobasis olivella, Lea, Proceed. Acad. Nat. Sci., p. 269, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 327, t. 38, f. 182, March, 1863. Obs. ix. p. 149.
37. *G. interrupta*, Haldeman.
Melania interrupta, Haldeman, Supplement to No. 1, Monog. Limniades, Oct. 1840. Wheatley, Cat. Shells U. S., p. 25. Jay, Cat., 4t edit., p. 274. Brot, List, p. 34. Reeve, Monog. Melania, sp. 398.
Goniobasis ornatella, Lea, Proceed. Acad. Nat. Sci., p. 269, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 326, t. 38, f. 181, March, 1863. Obs. ix. p. 148.
38. *G. crispa*, Lea.†
Goniobasis crispa, Lea, Proc. Acad. Nat. Sci., p. 269, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 326, t. 38, f. 180, March, 1863. Obs. ix. p. 148.
39. *G. formosa*, Conrad.‡
Melania formosa, Conrad, New Fresh-Water Shells, Appendix, p. 5, t. 9, f. 3, 1834. Wheatley, Cat. Shells U. S., p. 25. Binney, Check List, No. 112.
Melania formosa, Anthony, Reeve, Monog. Melania, sp. 387. Brot, List, p. 35.
40. *G. mediocris*, Lea.
Goniobasis mediocris, Lea, Proceed. Acad. Nat. Sci., p. 269, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 326, t. 38, f. 179, March, 1863. Obs. ix. p. 148.
41. *G. vesicula*, Lea.
Melania vesicula, Lea, Proc. Acad. Nat. Sci., p. 118, 1861.
Goniobasis vesicula, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 242, t. 35, f. 45, March, 1863. Obs. ix. p. 64.
42. *G. Duttonii*, Lea.§
Goniobasis Duttonii, Lea, Proceed. Acad. Nat. Sci., p. 266, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 314, t. 37, f. 158, March, 1863. Obs. ix. p. 136.
43. *G. laqueata*, Say.
Melania laqueata, Say, New Harmony Disseminator, p. 275, September, 1829. Say's Reprint, p. 17. American Conchology, No. 5, t. 47, f. 1. Binney's edition, pp. 143 and 200. Binney, Check List, No. 158. DeKay, Moll. New York, p. 97. Wheatley, Cat. Shells U. S., p. 25. Jay, Cat., 4th ed., p. 274. Reeve, Monog. Melania, sp. 281, 288? Brot, List, p. 35. Catlow, Conch. Nomencl., p. 187.

* Very like *Curreyana*, Lea, in the plicæ, but differs in form.

† More convex and with more regular striæ than *G. nassula*, Conrad.

‡ Close to *G. nassula*, Conrad, but is striate, and the aperture is more rounded.

§ Differs from *G. Tuomeyi*, Lea, in the form of the aperture. The specimens before me are not all two-banded, some of them being without bands, and of a light yellowish color.

- Melania monoazonalis*, * Lea, Philos. Proc., ii. p. 13, February, 1841. Philos. Trans., viii. p. 178, t. 6, f. 31. Obs. iii. p. 16. DeKay, Moll. New York, p. 96. Binney, Check List, No. 168. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 26. Catlow, Conch. Nomencl., p. 187. Brot, List, p. 40.
44. *G. Pybasii*, Lea.
Goniobasis Pybasii, Lea, Proc. Acad. Nat. Sci., p. 266, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 313, t. 37, f. 157, March, 1863. Obs., ix. p. 135, t. 37, f. 157.
45. *G. induta*, Lea.
Goniobasis induta, Lea, Proc. Acad. Nat. Sci., p. 267, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 319, t. 37, f. 166, March, 1863. Obs., ix. p. 141.
46. *G. versipellis*,† Anthony.
Melania versipellis, Anthony, Proc. Acad. Nat. Sci., p. 60, February, 1860. Binney, Check List, No. 286. Brot, List, p. 59. Reeve, Monog. Melania, sp. 436.
47. *G. gracilis*,‡ Lea.
Melania gracilis, Lea, Philos. Proc., ii. p. 12, Feb. 1841. Philos. Trans., viii. p. 168, t. 5, f. 11. Obs. iii. p. 6. DeKay, Moll. N. York, p. 94. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 25. Binney, Check List, No. 128. Catlow, Conch. Nomencl., p. 187. Brot, List, p. 38.
- Potadoma gracilis*, Lea, Chenu, Manuel de Conchyl., i. f. 1968.
48. *G. paucicosta*, Anthony.
Melania paucicosta, Anthony, Proc. Acad. Nat. Sci., p. 57, February, 1860. Binney, Check List, No. 198. Brot, List, p. 36. Reeve, Monog. Melania, sp. 255.
49. *G. tenebrosa*, Lea.
Melania tenebrosa, Lea, Philos. Proc., ii. p. 13, February, 1841. Philos. Trans., viii. p. 176, t. 5, f. 26. Obs. iii. p. 14. DeKay, Moll. N. Y., p. 95. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 27. Binney, Check List, No. 267. Catlow, Conch. Nomencl., p. 189. Reeve, Monog. Melania, sp. 443. Brot, List, p. 39.
50. *G. coracina*, Anthony.
Melania coracina, Anthony, Bost. Proc., iii. p. 361, Dec., 1850. Binney, Check List, No. 67. Brot, List, p. 58.
Melania Sellersiana, Lea, Philos. Trans., x. p. 299, t. 30, f. 8. Obs., v. p. 55. Binney, Check List, No. 239.
51. *G. intersita*, Haldeman.
Melania intersita, Haldeman, Monog. Limniades, No. 4, p. 4 of cover, Dec. 28, 1841. Binney, Check List, No. 150. Brot, List, p. 35. Reeve, Monog. Melania, sp. 376.
52. *G. columella*, Lea.
Melania columella, Lea, Philos. Proc., ii. p. 13, Feb., 1841. Philos. Trans., viii. p. 179, t. 6, f. 33. Obs. iii. p. 17. DeKay, Moll. N. Y., p. 96. Binney, Check List, No. 60. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 24. Catlow, Conch. Nomencl., p. 186. Brot, List, p. 35. Reeve, Monog. Melania, sp. 441.

*This is only a rather wide, young specimen of *laqueata*, as I have ascertained by the inspection of some hundreds of specimens of that species.

† *Versipellis* resembles a young *laqueata*, but its texture is quite heavy although small.

‡ Described by Mr. Lea as a smooth species, but among a hundred perfect specimens before me, over eighty are more or less plicate on the spire.

53. *G. blanda*, Lea.
Melania blanda, Lea, Philos. Proc., ii. p. 13, Feb. 1841. Philos. Trans., viii. p. 79, t. 6, f. 34. Obs. iii. p. 17. DeKay, Moll. N. Y., p. 97. Binney, Check List, No. 36. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 24. Catlow, Conch. Nomenc., p. 185. Brot, List, p. 35.
54. *G. nitens*, Lea.
Melania nitida,* Lea, Philos. Proc., ii. p. 14, February, 1841.
Melania nitens, Lea, Philos. Trans., viii. p. 182, t. 6, f. 40. Obs. iii. p. 20. DeKay, Moll. N. Y., p. 98. Binney, Check List, No. 178. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 26. Catlow, Conch. Nomenc., p. 187. Brot, List, p. 36.
55. *G. mutata*, Brot.
Melania Deshayesiana,† Reeve, Monog. Melania, sp. 278, September, 1860.
Melania mutata, Brot, List, p. 37.
56. *G. suturalis*, Haldeman.
Melania suturalis, Haldeman, Supplement to Monog. Limniades, No. 1, Oct., 1840. Wheatley, Cat. Shells U. S., p. 27. Jay, Cat., 4th ed., p. 275.
57. *G. mutabilis*,‡ Lea.
Goniobasis mutabilis, Lea, Proc. Acad. Nat. Sci., p. 270, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 331, t. 38, f. 189, March, 1863. Obs., ix. p. 153.
58. *G. Viennaensis*, Lea.
Goniobasis Viennaensis, Lea, Proc. Acad. Nat. Sci., p. 267, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 315, t. 37, f. 160, March, 1863. Obs., ix. p. 137.
59. *G. Curreyana*, Lea.
Goniobasis Curreyana, Lea, Philos. Proc., ii. p. 13, Feb. 1841. Philos. Trans., viii. p. 180, t. 6, f. 36. Obs. iii. p. 18. Wheatley, Cat. Shells U. S., p. 25. Binney, Check List, No. 79. DeKay, Moll. N. Y., p. 97. Reeve, Monog. Melania, sp. 286. Troost, Cat. Shells Tennessee. Catlow, Conch. Nomenc., p. 186. Brot, List, p. 35.
Melasma Curreyana, Lea, Chenu, Man. de Conchyl. i. f. 2003.
60. *G. costifera*,§ Haldeman.
Melania costifera, Haldeman, Monog. Melania., No. 2, p. 3 of Cover, Jan. 1841. Binney, Check List, No. 72. Brot, List, p. 34. Reeve, Monog. Melania, sp. 440.
61. *G. Deshayesiana*, Lea.
Melania plicatula,|| Lea, Proc. Philos. Soc., ii. p. 14, Feb. 1841. Philos. Trans., viii. p. 182, t. 6, f. 41. Obs., iii. p. 20. Troost, Cat. Shells Tenn. Jay, Cat., 4th Edit., p. 274. Catlow, Conch. Nomenc., p. 188. Brot, List, p. 34.
Melasma plicatula, Lea, Chenu, Man. de Conchyl. i. f. 1998.
Melania Deshayesiana, Lea, Philos. Proc., ii. p. 242, Dec. 1842. Philos. Trans., ix. p. 24. Obs., ix. p. 24. DeKay, Moll. N. Y. p. 98. Wheatley, Cat. Shells U. S., p. 25. Troost, Cat. Shells Tennessee. Jay, Cat. Shells, 4th Edit., p. 273. Binney, Check List, No. 88. Brot, List, p. 34.

* Preoccupied.

† Preoccupied by Mr. Lea, and the name changed to *mutata* by M. Brot

‡ Very closely allied to *suturalis*, but differs in the form of the aperture.

§ Differs from *Curreyana* by its more numerous plicæ, more acuminate spire, and by the mouth being more rounded at base.

|| Preoccupied, and changed to *Deshayesiana*.

- Melania Deshayssi*, Lea, Reeve, Monog. *Melania*, sp. 330.
62. *G. Abbevillensis*, Lea.
Goniobasis Abbevillensis, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Journ. Acad. Nat. Sci. v. pt. 3, p. 323, t. 38, f. 174, Mar. 1863. Obs., ix. p. 145.
63. *G. Doolyensis*, Lea.
Goniobasis Doolyensis, Lea, Proc. Acad. Nat. Sci., p. 266, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 315 t. 37, f. 159., Mar. 1863. Obs., ix. p. 137.
64. *G. inconstans*,† Lea.
Goniobasis inconstans, Lea, Proc. Acad. Nat. Sci., p. 269, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 325, t. 38, f. 178, Mar. 1863. Obs., ix. p. 147.
65. *G. continens*, Lea.
Goniobasis continens, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Jour. Acad. Nat. Sci., pt. 3, p. 324, t. 38, f. 176. Mar. 1863. Obs., ix. p. 146.
Goniobasis proletaria, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Jour. Acad. Sci., v. pt. 3, p. 325, t. 38, f. 177, Mar. 1863. Obs., ix. p. 147.
66. *G. viridicata*, Lea.
Goniobasis viridicata, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 322, t. 38, f. 172, Mar. 1863. Obs., ix. p. 144.
67. *G. purpurella*, Lea.
Giniobasis purpurella, Lea, Proc. Acad. Nat. Sci., p. 269, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 327, t. 38, f. 183, Mar. 1863. Obs., ix. p. 149.
68. *semicostata*, Conrad.
Melania semicostata, Conrad, New Fresh-Water Shells, App. p. 7, t. 9, f. 6, 1834. Binney, Check List, No. 241. Brot, List, p. 59.
69. *G. dislocata*, Ravenel.
Melania dislocata, Ravenel, Cat. Shells, p. 11, 1834. Binney, Check List, No. 90. Brot, List, p. 35. Reeve, Monog. *Melania*, sp. 380.
Goniobasis Lindsleyi, Lea, Proc. Acad. Nat. Sci., p. 267, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 319, t. 37, f. 167, Mar. 1863. Obs. ix. p. 141.
70. *G. paupercula*,§ Lea.
Goniobasis paupercula, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 324, t. 38, f. 176, Mar. 1863. Obs. ix., p. 146.
71. *G. corneola*, Anthony.
Melania corneola, Anthony, Proc. Acad. Nat. Sci., p. 61, Feb. 1860. Binney, Check List, No. 68. Brot, List, p. 35. Reeve, Monog. *Melania*, sp. 456.
72. *G. nassula*, Conrad.
Melania nassula, Conrad, New Fresh-Water Shells, p. 55, t. 8, f. 9, 1834. Binney, Check List, No. 171. DeKay, Moll. New York, p. 97. Jay, Cat. 4th Edit., p. 274. Wheatley, Cat. Shells U. S., p. 26. Brot, List, p. 34. Reeve, Monog. *Melania*, sp. 412. Catlow, Conch. Nomencl., p. 187.
73. *G. perstriata*, Lea.
Melania perstriata, Lea, Philos. Trans., x. p. 296, t. 30, f. 2. Obs., v. p. 52. Binney, Check List, No. 203. Brot, List, p. 36.

† I doubt whether this is more than the young of *Doolyensis*.
 § = *dislocata*, young?

74. *G. rugosa*, Lea.

Melania corrugata, Lea, Philos. Proc. ii. p. 13, Feb. 1841. Philos. Trans. viii. p. 177, t. 5, f. 30. Obs., iii. p. 15. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 24.

Melania rugosa,* Lea, Philos. Proc. ii. p. 237, Dec. 1842. Philos. Trans. viii. p. 248. Obs., iii. p. 86. DeKay, Moll. New York, p. 96. Binney, Check List, No. 235. Catlow, Conch. Nomenc., p. 188. Brot, List, p. 34.

75. *G. costulata*, Lea.

Melania costulata, Lea, Philos. Proc., ii. p. 14, Feb. 1841. Philos. Trans. viii. p. 181, t. 6, f. 39. Obs., iii. p. 19. Binney, Check List, No. 73. DeKay, Moll. N. Y., p. 98. Jay, Cat. 4th Edit., p. 273. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 24. Reeve, Monog. Melania, sp. 272, 360. Brot, List, p. 35.

76. *G. cinerella*, Lea.

Goniobasis cinerella, Lea, Proc. Acad. Nat. Sci., p. 269, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 328, t. 38, f. 184, Mar. 1863. Obs., ix. p. 150.

77. *G. Edgariana*, Lea.

Melania Edgariana, Lea, Philos. Proc., ii. p. 14, Feb. 1841. Philos. Trans., viii. p. 180, t. 6, f. 37. Obs., iii. p. 18. DeKay, Moll. N. Y., p. 97. Jay, Cat. 4th Edit., p. 273. Binney, Check List, No. 94. Troost, Cat. Shells Tenn. Reeve, Monog. Melania, sp. 430. Wheatley, Cat. Shells U. S., p. 25. Catlow, Conch. Nomenc., p. 186.

Melasma Edgariana, Lea, Chenu, Man. de Conchyl, i. f. 1997.

78. *G. caliginosa*, Lea.

Melania caliginosa, Lea, Philos. Proc. ii. p. 15, Feb. 1841. Philos. Trans., viii. p. 189, t. 6, f. 56. Obs., iii. p. 27. Wheatley, Cat. Shells U. S., p. 24. Reeve, Monog. Melania, sp. 293. DeKay, Moll. New York, p. 100. Binney, Check List, No. 44. Troost, Cat. Shells Tenn. Jay, Cat. 4th Edit., p. 273. Catlow, Conch. Nomenc. p. 185. Brot, List, p. 34.

79. *G. nodulosa*, Lea.

Melania nodulosa, Lea, Philos. Proc. ii. p. 15, Feb. 1841. Philos. Trans., viii. p. 190, t. 6, f. 57. Obs., iii. p. 28. DeKay, Moll. N. Y., p. 100. Binney, Check List, No. 180. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 26. Catlow, Conch. Nomenc. p. 188. Brot, List, p. 34. Reeve, Monog. Melania, sp. 276.

80. *G. glauca*, Anthony.

Melania glauca, Anthony, Proc. Acad. Nat. Sci., p. 57, Feb. 1860. Binney, Check List, No. 125. Brot, List, p. 35. Reeve, Monog. Melania, sp. 389.

Goniobasis Lyonii, Lea, Proc. Acad. Nat. Sci., p. 266. Jour. Acad. Nat. Sci., v. pt. 3, p. 313, t. 37, f. 156, Mar. 1863. Obs., ix. p. 135.

81. *G. difficilis*,† Lea.

Goniobasis difficilis, Lea, Proc. Acad. Nat. Sci. p. 267, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 317, t. 37, f. 163, Mar. 1863. Obs., ix. p. 139.

82. *G. sparus*, Lea.

Goniobasis sparus, Lea, Proc. Acad. Nat. Sci., p. 267, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 316, t. 37, f. 162, Mar. 1863. Obs., ix. p. 138.

Goniobasis cerea, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 321, t. 38, f. 171, Mar. 1863. Obs. ix. p. 143.

* Preoccupied.

† Resembles *G. glauca*, but the whorls are more convex. *G. baculum* is more cylindrical than this species.

83. *G. Thorntonii*, Lea.
Goniobasis Thorntonii, Lea, Proc. Acad. Nat. Sci., p. 268, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 320, t. 38, f. 168, Mar. 1863. Obs., ix. p. 142.
84. *G. cancellata*,* Say.
Melania cancellata, Say, New Harmony Disseminator, p. 260, Aug. 1829. Say's Reprint, p. 16. Binney's Edit., p. 141. Binney, Check List, No. 46. DeKay, Moll. N. Y., p. 93. Wheatley, Cat. Shells U. S., p. 24. Brot, List, p. 34.
85. *G. circincta*, Lea.
Melania circincta, Lea, Philos. Proc. ii. p. 15, Feb. 1841. Philos. Trans., viii. p. 187, t. 6, f. 51. Obs., iii. p. 25. DeKay, Moll., N. Y., p. 99. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 24. Catlow, Conch. Nomenc., p. 186. Brot, List, p. 31. Reeve, Monog. Melania, sp. 289.
Melania circinnata, Lea, Binney, Check List, No. 54.
Juga circinnata, Lea, Chenu, Man. de Conchyl., i. f. 2015.
86. *G. athleta*, Anthony.
Melania athleta, Anthony, Ann. Lyc. Nat. Hist. N. Y., vi. p. 83, t. 2, f. 1, Mar. 1854. Binney, Check List, No. 23. Brot, List, p. 34. Reeve, Monog. Mel., sp. 258.
87. *G. curvicastrata*, Anthony.
Melania curvicastrata, Anthony, MSS. Reeve, Monog. Melania, sp. 462. Brot, List, p. 35.
Melania densecostata, Reeve, Monog. Melania, sp. 465. Brot, List, p. 35.
88. *G. striatula*, Lea.
Melania striata,† Lea, Philos. Proc. ii. p. 15, Feb. 1841. Philos. Trans., viii. p. 186, t. 6, f. 49. Obs., iii. p. 24. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p.
Juga striata, Lea, Chenu, Man. de Conchyl. i. f. 2018.
Melania striatula, Lea, Philos. Proc. ii. p. 237, Dec. 1842. Philos. Trans., viii. p. 248. Obs., iii. p. 86. DeKay, Moll. New York, p. 99. Jay, Cat. 4th Edit., p. 275. Binney, Check List, No. 249. Catlow, Conch. Nomenc., p. 188. Reeve, Monog. Melania, sp. 466. Brot, List, p. 35.
89. *G. tripartita*, Reeve.
Melania tripartita, Reeve, Monog. Melania, sp. 364, Dec. 1860. Brot, List, p. 37.
90. *G. decora*, Lea.
Melania decora, Lea, Philos. Proc. ii. p. 14, Feb. 1841. Philos. Trans., viii. p. 181, t. 6, f. 38. Obs., iii. p. 19. DeKay, Moll. N. Y., p. 98. Binney, Check List, No. 85. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 25. Reeve, Monog. Melania, sp. 292. Catlow, Conch. Nomenc., p. 186. Brot, List, p. 35.
91. *G. crebricostata*, Lea.
Melania crebricostata, Lea, Philos. Proc. ii. p. 13, Feb. 1841. Philos. Trans., viii. p. 179, t. 6, f. 35. Obs., iii. p. 17. DeKay, Moll. New York, p. 97. Jay, Cat. 4th Edit., p. 273. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 24. Reeve, Monog. Melania, sp. 374. Binney, Check List, No. 74. Brot, List, p. 35.
Melasma crebricostata, Lea, Chenu, Man. de Conchyl. i. f. 1999.

* I am unable to find specimens of this shell in any of our cabinets, and as it has never been figured, I assign it the position it occupies in this catalogue from the description only.

† Name preoccupied.

92. *G. comma*, Conrad.
Melania comma, Conrad, New Fresh Water Shells, p. 53, t. 8, f. 7, 1834.
 Wheatley, Cat. Shells U. S., p. 24. Reeve, Monog. *Melania*, sp. 107.
 Binney, Check List, No. 61. DeKay, Moll. New York, p. 95. Jay, Cat.
 4th Edit., p. 273. Brot, List, p. 35. Catlow, Conch. Nomenc. p. 186.
93. *G. acuta*, Lea.
Melania acuta, Lea, Philos. Trans., iv. p. 101, t. 15, f. 32. Obs. i. p. iii.
 Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 24.
 Binney, Check List, No. 4. Brot, List, p. 3. Reeve, Monog. *Melania*,
 sp. 274.
94. *G. subcylindracea*, Lea.
Melania subcylindracea, Lea, Philos. Proc. ii. p. 12, Feb. 1841. Philos.
 Trans., viii. p. 169, t. 5, f. 14. Obs., iii. p. 7. DeKay, Moll. New
 York, p. 94. Troost, Cat. Shells Tenn. Binney, Check List, No. 253.
 Wheatley, Cat. Shells U. S., p. 27. Catlow, Conch. Nomenc. p. 188.
 Brot, List, p. 39. Reeve, Monog. *Melania*, sp. 399.
95. *G. baculum*, Anthony.
Melania baculum, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 98, t. 2, f.
 16, Mar. 1854. Binney, Check List, No. 27. Brot, List, p. 34.
 Reeve, Monog. *Melania*, sp. 431.
96. *G. concinna*,* Lea.
Melania concinna, Lea, Philos. Proc. ii. p. 14, Feb. 1841. Philos. Trans.,
 viii. p. 183, t. 6, f. 42. Obs. iii. p. 21. DeKay, Moll. New York, p. 98.
 Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 24.
 Catlow, Conch. Nomenc. p. 186. Binney, Check List, No. 63. Brot,
 List, p. 34.
97. *G. eliminata*, Anthony,
Melania eliminata, Anthony, Ann. New York Lyc. Nat. Hist., vi., p. 97, t.
 2, f. 15, Mar. 1854. Binney, Check List, No. 98. Brot, List, p. 34.
98. *G. teres*, Lea.
Melania teres, Lea, Philos. Proc., ii. p. 13, Feb. 1841. Philos. Trans., viii.
 p. 176, t. 5, f. 27. Obs., iii. p. 14. DeKay, Moll. New York, p. 96.
 Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 27. Binney,
 Check List, No. 269. Jay, Cat. 4th Edit., p. 275. Catlow, Conch.
 Nomenc. p. 189. Brot, List, p. 35.
Melania terebralis,† Lea, Philos. Proc., ii, p. 13, Feb. 1841. Philos. Trans.,
 viii. p. 178, t. 6, f. 32. Obs., iii. p. 16. DeKay, Moll. New York, p.
 96. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 27.
 Binney, Check List, No. 268. Catlow, Conch. Nomenc. p. 189. Brot,
 List, p. 36.
99. *G. gracillima*, Anthony.
Melania gracillima, Anthony, Proc. Acad. Nat. Sci., p. 62, Feb. 1860. Bin-
 ney, Check List, No. 129. Brot, List, p. 36. Reeve, Monog. *Melania*,
 sp. 437.
100. *G. Clarkii*, Lea.
Melania Clarkii, Lea, Philos. Trans., x. p. 297, t. 30, f. 4. Obs., v. p. 53.
 Binney, Check List, No. 56. Brot, List, p. 34. Reeve, Monog. *Me-*
lania, sp. 356.
101. *G. DeCampii*, Lea.
Goniobasis DeCampii, Lea, Proc. Acad. Nat. Sci., p. 154, May, 1863.

* Extensively distributed by Mr. Anthony as *M. comma*, Conrad, variety.

† Half grown shell of *G. teres*.

102. *G. abbreviata*, Anthony.
Melania abbreviata, Anthony, Bost. Proc., iii. p. 360, Dec., 1850. Binney, Check List, No. 4. Reeve, Monog. *Melania*, sp. 424.
Melania elegantula, Anthony, Ann. Lyc. Nat. Hist. N. Y., vi. p. 103, t. 3, f. 2, March, 1854. Binney, Check List, No. 96. Brot, List, p. 32. Reeve, Monog. *Melania*, sp. 346.
Melania coronilla, Anthony, Ann. Lyc. Nat. Hist. N. Y., vi. p. 126, t. 3, f. 27, March, 1854. Binney, Check List, No. 69. Brot, List, p. 32. Reeve, Monog. *Melania*, sp. 418.
Melania chalybea, Anthony, Brot, List, p. 37.
103. *G. plicifera*, Lea.
Melania plicifera, Lea, Philos. Trans. vi. p. 93, t. 23, f. 90. Obs. ii. p. 93. Wheatley, Cat. Shells U. S., p. 26. Jay, Cat., 4th ed., p. 274. Binney, Check List, No. 211. Reeve, Monog. *Melania*, sp. 284. Cooper, Report, p. 374. Brot, List, p. 36. Gould, Moll. Expl. Exped., p. 143, f. 165.
Melasma plicifera, Lea, Chenu, Manuel, i. f. 2001.
104. *G. silicula*, Gould.
Melania silicula, Gould, Bost. Proc., ii. p. 224, June, 1847. Otia Conchologica, p. 46. Moll. Expl. Exped., p. 141, f. 164, 164a. Cooper, Report, p. 374. Binney, Check List, No. 243. Brot, List, p. 52.
Melania Shastaensis, Lea, Proc. Acad. Nat. Sci., viii. p. 80, April, 1856. Binney, Check List, No. 242. Cooper, Report, p. 374.
Goniobasis Shastaensis, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 337, t. 38, f. 199, March, 1863. Obs. ix. p. 159.
Melania rudens, Reeve, Monog. *Melania*, sp. 224, May, 1860. Brot, List, p.
105. *G. nigrina*,* Lea.
Melania nigrina, Lea, Proc. Acad. Nat. Sci., p. 80, April, 1856.
Goniobasis nigrina, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 302, t. 37, f. 137, March, 1863. Obs. ix. p. 124. Binney, Check List, No. 177.
106. *G. rubiginosa*, Lea.
Goniobasis rubiginosa, Lea, Proceed. Acad. Nat. Sci., p. 270, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 333, t. 38, f. 193, March, 1863. Obs. ix. p. 155.
107. *G. Bairdiana*, Lea.
Goniobasis Bairdiana, Lea, Proc. Acad. Nat. Sci., p. 267, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 317, t. 37, f. 164, March, 1863. Obs. ix. p. 139, t. 37, f. 164.
- D. *Shell angulate*.
108. *G. trochiformis*,† Conrad.
Melania trochiformis, Conrad, New Fresh-Water Shells, p. 56, t. 8, f. 11, 1834. DeKay, Moll. New York, p. 100. Wheatley, Cat. Shells U. S., p. 27. Binney, Check List, No. 275. Brot, List, p. 31.
109. *G. cristata*,‡ Anthony.
Melania cristata, Anthony, Ann. Lyc. Nat. Hist. N. Y., vi. p. 108, t. 3, f. 8, March, 1854. Binney, Check List, No. 77. Brot, List, p. 32. Reeve, Monog. *Melania*, sp. 413.
110. *G. cruda*, Lea.
Goniobasis cruda, Lea, Proc. Acad. Nat. Sci., p. 270, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 332, t. 38, f. 190, March, 1863. Obs. ix. p. 154.

* Differs from *silicula* in being more cylindrical, with the apical whorls carinate.

† The figure of this species in Mr. Conrad's work is not recognizable, but it will probably be found to = *cristata*, Anth., young.

‡ = *proteus*, Lea?

111. *G. Whitei*, Lea.
Goniobasis Whitei, Lea, Proc. Acad. Nat. Sci., p. 266, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 310, t. 37, f. 151, March, 1863. Obs. ix. p. 132.
112. *G. casta*, Anthony.
Melania casta, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 100, t. 2, f. 19, March, 1854. Binney, Check List, No. 50. Brot, List, p. 32. Reeve, Monog. Melania, sp. 381.
113. *G. rhombica*, Anthony.
Melania rhombica, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 116, t. 3, f. 16, March, 1854. Binney, Check List, No. 228. Brot, List, p. 38. Reeve, Monog. Melania, sp. 347.
114. *G. angulata*, Anthony.
Melania angulata,* Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 117, t. 3, f. 17, March, 1854. Binney, Check List, No. 14. Brot, List, p. 37. Reeve, Monog. Melania, sp. 386.
Melania cinnamomea, Anthony, Reeve, Monog. Melania, sp. 379. Brot, List, p. 35.
Goniobasis intercedens, Lea, Proceed. Acad. Nat. Sci., p. 265, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 305, t. 37, f. 143. Obs. ix. p. 127.
115. *G. Bridgesiana*, Lea.
Goniobasis Bridgesiana, Lea, Proc. Acad. Nat. Sci., p. 265, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 305, t. 37, f. 142, March, 1863. Obs. ix. p. 173, t. 37, f. 142.
116. *G. cubicoides*, Anthony.
Melania cubicoides,† Anthony, Proc. Acad. Nat. Sci., p. 60, Feb., 1860. Binney, Check List, No. 78. Brot, List, p. 39. Reeve, Monog. Melania, sp. 445.
117. *G. Spillmanii*, Lea.
Goniobasis Spillmanii, Lea, Proceed. Acad. Nat. Sci., p. 264, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 302, t. 37, f. 138, March, 1863. Obs. ix. p. 124.
118. *G. plebeius*, Anthony.
Melania plebejus, Anthony, Bost. Proc., iii. p. 362, Dec., 1850. Reeve, Monog. Melania, sp. 414.
Melania plebeius, Anthony, Binney, Check List, No. 209.
Melania plebeia, Anthony, Brot, List, p. 38.
119. *G. opaca*,‡ Anthony.
Melania opaca, Anthony, Proc. Acad. Nat. Sci., p. 58, Feb., 1860. Binney, Check List, No. 189. Brot, List, p. 38. Reeve, Monog. Melania, sp. 384.
Melania iostoma, Anthony, Proc. Acad. Nat. Sci., p. 62, February, 1860. Binney, Check List, No. 152. Brot, List, p. 31. Reeve, Monog. Melania, sp. 351.
Melania nigrostoma,§ Anthony, Reeve, Monog. Melania, sp. 463, 367. Brot, List, p. 38.
120. *G. pallidula*, Anthony.
Melania pallidula, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 115, t. 3, f. 15, March, 1854. Binney, Check List, No. 197. Brot, List, p. 38. Reeve, Monog. Melania, sp. 417.

* Juvenile shell. The adult is described under the names of *cinnamomea* and *intercedens*.

† The longitudinal ribs attributed to this species by Mr. Anthony are very faint on the type shell, and do not exist at all on other specimens.

‡ = *ovoidea*, Lea. ? *G. ebum* of Lea appears to be more rounded in the base of the aperture, and the periphery not angulated; still it may be the same.

§ Young specimens.

121. *G. vicina*,* Anthony.
Melania vicina, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 114, t. 3, f. 14, March, 1854. Binney, Check List, No. 288. Brot, List, p. 39. Reeve, Monog. *Melania*, sp. 291.
122. *G. Spartenburgensis*,† Lea.
Goniobasis Spartenburgensis, Lea, Proc. Acad. Nat. Sci., p. 265, 1862. Jour. Acad. Nat. Sci., 2d ser., v. pt. 3, p. 307, t. 37, f. 147, March, 1863. Obs. ix. p. 129.
123. *G. modesta*, Lea.
Melania modesta, Lea, Philos. Proc., iv. p. 166, Aug., 1845. Philos. Trans., x. p. 60, t. 9, f. 34. Obs. iv. p. 60. Binney, Check List, p. 36.

E. Whorls very strongly carinated.

124. *G. pagodiformis*, Anthony.
Melania pagodiformis, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 106, t. 3, f. 6, March, 1854. Binney, Check List, No. 195. Brot, List, p. 36. Reeve, Monog. *Melania*, sp. 260.
Melania torulosa, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 110, t. 3, f. 10, March, 1854. Binney, Check List, No. 273. Brot, List, p. 37. Reeve, Monog. *Melania*, sp. 370.
125. *G. Gerhardtii*, Lea.
Goniobasis Gerhardtii, Lea, Proceed. Acad. Nat. Sci., p. 270, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 330, t. 38, f. 187, March, 1863. Obs. ix. p. 152.
Goniobasis infusata, Lea, Proceed. Acad. Nat. Sci., p. 270, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 330, t. 38, f. 188, March, 1863. Obs. ix. p. 152.
126. *G. oblita*, Lea.‡
Melania oblita, Lea, Philos. Trans., x. p. 298, t. 30, f. 6. Obs. v. p. 54. Binney, Check List, No. 182. Brot, List, p. 36.
127. *G. acutocarinata*,§ Lea.
Melania acutocarinata, Lea, Philos. Proc., ii. p. 14, Feb., 1841. Philos. Trans., viii. p. 184, t. 6, f. 46. Obs. iii. p. 22. DeKay, Moll. N. Y., p. 99. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 24. Binney, Check List, No. 5. Catlow, Conch. Nomencl., p. 185. Brot, List, p. 36.
Elimia acutocarinata, Lea, Chenu, Manuel de Conchyl., i. f. 1979.

F. Body whorl bi-multiangulated.

128. *G. tabulata*, Anthony.
Melania tabulata, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 118, t. 3, f. 18, March, 1854. Binney, Check List, No. 262. Brot, List, p. 39.
129. *G. Catawbaea*,|| Haldeman. (MSS.)
130. *G. vittata*, Anthony.
Melania vittata, Anthony, Ann. Lyc. Nat. Hist. N. Y., vi. p. 89, t. 2, f. 7, March, 1854. Binney, Check List, No. 294. Brot, List, p. 37. Reeve, Monog. *Melania*, sp. 262.

* Described as from Alabama, but all the specimens before me are labelled "Kentucky" by Mr. Anthony, and I think the latter habitat is correct.

† I fear the Northern specimens of this species are not distinct from *depygis*, Say.

‡ Differs from *symmetrica* in being striate.

§ This shell is believed by Prof. Haldeman to = *simplex*, Say, but I doubt it. *Acutocarinata*, it is true, is not always carinate, but, it appears to me, is always narrowly lengthened.

|| A wider species than others of the group; none of the specimens are banded.

- Melania pulcherrima*,* Anthony, Proc. Acad. Nat. Sci., p. 58, Feb., 1860. Binney, Check List, No. 222. Brot, List, p. 37. Reeve, Monog. Melania, sp. 336.
131. *G. subangulata*,† Anthony.
Melania subangulata, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 91, t. 2, f. 9, March, 1854. Binney, Check List, No. 252. Brot, List, p. 37. Reeve, Monog. Melania, sp. 242.
Melania paula, Lea, Proc. Acad. Nat. Sci., p. 122, 1861. Jour. Acad. Nat. Sci., v. pt. 3, p. 244, t. 35, f. 48, March, 1863. Obs. ix. p. 66.
132. *G. symmetrica*,‡ Haldeman.
Melania symmetrica, Haldeman, Monog. Lim., No. 4, p. 3 of Cover, October 5, 1841. Binney, Check List, No. 261. Jay, Cat., 4th ed., p. 275. Brot, List, p. 35. Reeve, Monog. Melania, sp. 328.
Melania imbricata, Anthony, Ann. N. Y. Lyc. Nat. Hist., vi. p. 105, t. 3, f. 5, March, 1854. Binney, Check List, No. 142. Brot, List, p. 36. Reeve, Monog. Melania, sp. 259.
Melania bicincta, Anthony, Proc. Acad. Nat. Sci., p. 56, Feb., 1860. Binney, Check List, No. 31. Brot, List, p. 36. Reeve, Monog. Melania, sp. 327.
Melania assimilis, Anthony, Proc. Acad. Nat. Sci., p. 60, Feb. 1860. Brot, List, p. 36. Reeve, Monog. Melania, sp. 464.
Melania assimilis, Lea, (mistake,) Binney, Check List, No. 22.
Goniobasis Uchénsis, Lea, Proc. Acad. Nat. Sci., p. 270, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 334, t. 38, f. 194, March, 1863. Obs. ix. p. 156.
Goniobasis Barrattii, Lea, Proc. Acad. Nat. Sci., p. 271, 1862. Journ. Acad. Nat. Sci., v. pt. 3, p. 335, t. 38, f. 196, March, 1863. Obs. ix. p. 157.
133. *G. iota*, Anthony.
Melania iota, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 86, t. 2, f. 4, March, 1854. Brot, List, p. 36. Binney, Check List, No. 153.
134. *G. nigrocincta*, Anthony.
Melania nigrocincta, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 90, t. 2, f. 8, March, 1854. Brot, List, p. 36. Binney, Check List.
135. *G. tecta*, Anthony.
Melania tecta, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 105, t. 3, f. 4, Mar. 1854. Binney, Check List, No. 265. Brot, List, p. 37. Reeve, Monog. Melania, sp. 253.
Goniobasis macella, Lea, Proc. Acad. Nat. Sci., p. 270, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 333, t. 38, f. 192, March, 1863. Obs. ix. p. 155.
136. *G. hybrida*,§ Anthony.
Melania hybrida, Anthony, Proc. Acad. Nat. Sci. p. 60, Feb. 1860. Binney, Check List, No. 140. Brot, List, p. 36.
Melania subcarinata, Anthony, Reeve, Monog. Melania, sp. 282.
137. *G. fuscocincta*, Anthony.
Melania fuscocincta, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 120, t. 3, f. 20, March, 1854. Binney, Check List, No. 118. Brot, List, p. 40. Reeve, Monog. Melania, sp. 415.
138. *G. congesta*,|| Conrad.

* *G. pulcherrima* is the juvenile form.

† Differs from *vitata*, Anth., in having a more rounded aperture.

‡ The various synonyms of this species, inhabiting North and South Carolina, Alabama and Tennessee, are all characterized by an identical form, although varying somewhat in color. Having examined several hundred specimens, I find them to vary so much in that respect that I cannot unite any of the so called species.

§ Differs from *symmetrica* in being more cylindrical, with the whorls more flattened.

|| I can obtain no information regarding this species except the meagre description. It has never been figured, and I cannot find specimens in our cabinets.

Melania congesta, Conrad, Amer. Jour. Sci., 1st ser. xxv. p. 343, Jan. 1834.
DeKay, Moll. N. Y., p. 96. Wheatley, Cat. Shells U. S., p. 24. Binney,
Check List, No. 64. Jay, Cat., 4th Edit., p. 273. Brot, List, p. 36.

G. Short clavate, smooth species.

139. *G. auriculæformis*, Lea.*
Melania auriculæformis, Lea, Philos. Proc., iv. p. 166. Philos. Trans., x. p. 62, t. 9, f. 39. Obs. iv. p. 62, t. 9, f. 39. Binney, Check List, No. 24. Brot, List, p. 32. Reeve, Monog. *Melania*, sp. 409.
140. *G. Nickliniana*, Lea.
Melania Nickliniana, Lea, Philos. Proc., ii. p. 12, Feb., 1841. Philos. Trans., viii. p. 171, t. 5, f. 18. Obs. iii. p. 9. DeKay, Moll. N. Y., p. 95. Reeve, Monog. *Melania*, sp. 375. Wheatley, Cat. Shells U. S., p. 26. Catlow, Conch. Nomencl., p. 187.
Leptoxis Nickliniana, Lea, Binney, Check List, No. 371.
141. *G. aterina*, Lea.†
Goniobasis aterina, Lea, Proc. Acad. Nat. Sci., p. 155, May, 1863.
142. *G. Binneyana*, Lea.
Goniobasis Binneyana, Lea, Proc. Acad. Nat. Sci., p. 266, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 310, t. 37, f. 152, March, 1863. Obs. ix. p. 132.
143. *G. ebenum*, Lea.‡
Melania ebenum, Lea, Philos. Proc. ii. p. 12, Feb. 1841. Philos. Trans., viii. p. 166, t. 5, f. 7. Obs. iii. p. 4. DeKay, Moll. New York, p. 93. Jay, Cat., 4th Edit., p. 273. Binney, Check List, No. 93. Troost, Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 25. Reeve, Monog. *Melania*, sp. 350. Catlow, Conch. Nomencl., p. 186. Brot, List, p. 31.
Anculotus ebenum, Lea, Reeve, Monog. *Anculotus* t. 4, f. 31.
Melania brunnea, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 92, t. 2, f. 10, March, 1854. Binney, Check List, No. 41. Brot, List, p. 39. Reeve, Monog. *Melania*, sp. 319.
Melania Paula, Anthony, Brot, List, p. 40.
144. *G. Vauxiana*, Lea.
Goniobasis Vauxiana, Lea, Proc. Acad. Nat. Sci., p. 265, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 309, t. 37, f. 150, March, 1863. Obs. ix. p. 131.
145. *G. larvæformis*, Lea.
Melania larvæformis, Lea, MSS., Reeve, Monog. *Melania*, sp. 357, Dec., 1860. Brot, List, p. 38.
146. *G. auricoma*, Lea.
Goniobasis auricoma, Lea, Proc. Acad. Nat. Sci., p. 265, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 308, t. 37, f. 148, March, 1863. Obs. ix. p. 130.
147. *G. glabra*, Lea.§
Melania glabra, Lea, Proc. Acad. Nat. Sci., ii. p. 82, Oct., 1841. Philos. Trans., ix. p. 18. Obs. iv. p. 18. Wheatley, Cat. Shells U. S., p. 25. Binney, Check List, No. 123. Brot, List, p. 38. Reeve, Monog. *Melania*, sp. 439.
148. *G. graminea*, Haldeman, MSS.
149. *G. gibbosa*, Lea.
Melania gibbosa, Lea, Philos. Proc., ii. p. 34, April, 1841. Philos. Trans. x.

*This shell reminds us of a young *olivula*, Con., but differs from that species in texture.

† Differs from *ebenum*, Lea, in being smaller, narrower, and more angulate at the periphery.

‡ Lighter-colored and more rounded than *iostoma*, Anthony. Mr. Lea considers that species to be identical with *ebenum*.

§ = *Simplex*, Say?

- p. 301, t. 30, f. 12. Obs. v. p. 57, t. 30, f. 12. Binney, Check List, No. 121. Brot, List, p. 40.
150. *G. Vanuxemii*, Lea.
Goniobasis Vanuxemii, Lea, Proc. Acad. Nat. Sci., p. 265, 1862. Jour. Acad. Nat. Sci., v. p. 307, t. 37, f. 146. Obs. ix. p. 129.
151. *G. cognata*, Anthony.
Melania cognata, Anthony, Proc. Acad. Nat. Sci., p. 60, Feb., 1860. Binney, Check List, No. 59. Brot, List, p. 39. Reeve, Monog. Melania, sp. 458.
152. *G. Georgiana*, Lea.
Goniobasis Georgiana, Lea, Proc. Acad. Nat. Sci., p. 265, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 308, t. 37, f. 149. Obs. ix. p. 130.
153. *G. abrupta*, Lea.
Melania abrupta, Lea, Philos. Proc., iv. p. 165. Philos. Trans., x. p. 59, t. 9, f. 32. Obs. iv. p. 59, t. 9, f. 32. Binney, Check List, No. 2. Brot, List, p. 37. Reeve, Monog. Melania, sp. 397.
154. *G. depygis*, Say.
Melania depygis, Say, New Harmony Disseminator, p. 291. Say's Reprint, p. 19. Am. Conchology, Part 1, t. 8, f. 4, 5. Binney's Reprint, p. 145 and 157, t. 8. Binney, Check List, No. 87. Lapham, Cat. Moll. Wisconsin. Kirtland, Am. Jour. Sci. Kirtland, Rep. Zool. Ohio, p. 174. Shaffer, Catalogue. Higgins, Catalogue. Anthony, List, 1st and 2d Edit. Sager, Rept. Michigan Moll., p. 15. Wheatley, Cat. Shells U. S., p. 25. DeKay, Moll. N. Y., p. 89, t. 7, f. 135. Stimpson, Shells of New England, p. 32. Jay, Cat. Shells, 4th Edit., p. 273. Adams, Am. Jour. Sci., xl. p. 366. Adams, Thompson's Hist. Vermont, p. 152. Catlow, Conch. Nomencl., p. 186. Brot, List, p. 37. Deshayes, Lamarck, Anim. sans. Vert., viii. p. 441. Reeve, Monog. Melania, sp. 373.
Melania occulta, Anthony, Proc. Acad. Nat. Sci., p. 5, Feb., 1860. Binney, Check List, No. 185. Brot, List, p. 38. Reeve, Monog. Melania, sp. 254.
155. *G. livescens*, Menke.
Melania livescens, Menke, Syn. Meth., p. 135, 1830. Binney, Check List, No. 163. Gould, Lake Superior, p. 245. Jay, Cat., 4th Edit., p. 274. Reeve, Monog. Melania, sp. 229. Brot, List, p. 38. Currier, Shells of Grand River Valley, Mich., 1859.
Melania Niagarensis,* Lea, Philos. Proc., ii. p. 12, Feb., 1841. Philos. Trans., viii. p. 173, t. 5, f. 21. Obs. iii. p. 11. DeKay, Moll. N. Y., p. 90. Wheatley, Cat. Shells U. S., p. 26. Binney, Check List, No. 175. Catlow, Conch. Nomencl., p. 187. Brot, List, p. 38. Currier, Shells of Grand River Valley, Mich. Bell, Canad. Naturalist, iv. pt. 3, p. 213, June, 1859.
Melania napella, Anthony, Bost. Proc., iii. p. 362, Dec., 1850. Binney, Check List, No. 170. Brot, List, p. 59.
Melania cuspidata, Anthony, Bost. Proc., iii. p. 362, Dec., 1850. Binney, Check List, No. 83. Reeve, Monog. Melania, sp. 283.
Melania correctata, Brot, List, p. 39.
156. *G. Milesii*, Lea.†
Goniobasis Milesii, Lea, Proc. Acad. Nat. Sci., p. 154, May, 1863.
157. *G. simplex*, Say.
Melania simplex, Say, Jour. Acad. Nat. Sci., v. p. 126, Sept., 1825. Binney's Edition, p. 115. Binney, Check List, No. 244. DeKay, Moll. N. Y., p.

*In considering this species to be the same as *livescens*, I am sustained by the opinion of almost every American Conchologist.

†Larger, more convex, and of thinner texture than *livescens*.

100. Wheatley, Cat. Shells U. S., p. 27. Reeve, Monog. *Melania*, sp. 148. Jay, Cat., 4th Edit., p. 275. Brot, List, p. 38.
- Melania Warderiana*, Lea,* Philos. Proc., ii. p. 14, Feb., 1841. Philos. Trans., viii. p. 185, t. 6, f. 47. Obs. iii. p. 23. DeKay, Moll. N. Y., p. 99. Catlow, Conch. Nomenc., p. 189. Binney, Check List, No. 297. Brot, List, p. 39. Reeve, Monog. *Melania*, sp. 353.
- Melania Wardiana*, Lea, Wheatley, Cat. Shells U. S., p. 27.
- Potadoma Warderiana*, Lea, Chenu, Manual de Conchyl., i. f. 1972.
- Melania densa*, Anthony, Bost. Proc., iii. p. 360. Dec., 1850. Binney, Check List, No. 89. Brot, List, p. 31. Reeve, Monog. *Melania*, sp. 250.
158. *G. Potosiensis*, Lea.†
- Melania Potosiensis*, Lea, Philos. Proc., ii. p. 14, Feb., 1841. Philos. Trans., viii. p. 184, t. 6, f. 45. Obs. iii. p. 22. DeKay, Moll. N. Y., p. 99. Wheatley, Cat. Shells U. S., p. 26. Binney, Check List, No. 215. Catlow, Conch. Nomenc., p. 188. Brot, List, p. 36. Reeve, Monog. *Melania*, sp. 295.
159. *G. torta*, Lea.
- Melania torta*, Lea, Philos. Proc. iv. p. 165, Aug. 1845. Philos. Trans., x. p. 58, t. 9, f. 30. Obs. iv. p. 58. Binney, Check List, No. 272. Brot, List, p. 39. Reeve, Monog. *Melania*, sp. 377.
160. *G. Saffordii*, Lea.
- Melania Saffordii*, Lea, Philos., Trans. x. p. 300, t. 30, f. 10. Obs. v. p. 56. Binney, Check List, No. 236. Brot, List, p. 38. Reeve, Monog. *Melania*, sp. 365.
- Melania virens*, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 93, t. 2, f. 11, Mar., 1854. Binney, Check List, No. 289. Brot, List, p. 40.
161. *G. Newberryi*, Lea.
- Goniobasis Newberryi*, Lea, Proc. Acad. Nat. Sci. March 20, 1860. Jour. Acad. Nat. Sci. v. pt. 3, p. 300, t. 37, f. 135, Mar. 1863. Obs. ix. p. 122. Binney, Check List, No. 174. Brot, List, p. 38.
162. *G. bulbosa*,‡ Gould.
- Melania bulbosa*, Gould, Bost. Proc. ii. p. 225, July, 1847. Otia Conchologica, p. 46. Moll. Expl. Exped. p. 142, f. 163, 163a. 1852. Binney, Check List, No. 43. Brot, List, p. 58.
163. *G. Lithasioides*, Lea.
- Goniobasis Lithasioides*, Lea, Proc. Acad. Nat. Sci., May, 1863.
164. *G. infantula*, Lea.
- Goniobasis infantula*, Lea, Proc. Acad. Nat. Sci., May, 1863.
165. *G. Louisvillensis*, Lea.
- Goniobasis Louisvillensis*, Lea, Proc. Acad. Nat. Sci., May, 1863.
- H. Smooth, elevated species.
166. *G. pulchella*,§ Anthony.
- Melania pulchella*, Anthony, Bost. Proc. iii. p. 361, Dec. 1850. Higgins, Catalogue, p. 7. Reeve, Monog. *Melania*, sp. 257. Binney, Check List, No. 221. Brot, List, p. 38. Currier, Shells of Grand River Valley, Mich.

*I am much indebted to Prof. Haldeman for the opportunity of studying the excellent suite of specimens collected by himself in Holston River, which conclusively proves the identity of these species.

†Were it not for the wide difference of habitat, I should suspect this to be the same as *simplex* of Say.

‡This species is exactly similar in outline to Mr. Lea's *Newberryi*, but none of the specimens of *bulbosa* that I have seen, (including Dr. Gould's types), exhibit the slightest indication of bands, while Mr. Lea declares his species to be always banded.

§Shell more elevated than *depygis*, which it resembles in color and ornamentation.

167. *G. cinerea*, Lea.
Goniobasis cinerea, Lea, Proc. Acad. Nat. Sci., p. 265, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 306, t. 37, f. 145. Obs. ix. p. 128.
168. *G. gracilior*, Anthony.
Melania gracilis, * Anthony, Cover of No. 4. Haldeman's Monog. Limniades, Dec. 28, 1841. Shells of Cincinnati, 1st Edit. Newberry, Proc. American Association for Adv. of Science, v. p. 105. Jay, Cat. 4th Edit., p. 273.
Melania gracilior, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 129, t. 1, f. 5, 1854. Higgins, Cat. p. 7. Binney, Check List, No. 127. Reeve, Monog. Melania, sp. 244.
Melania gracilis, Lea, Reeve, Monog. Melania, sp. 369.
169. *G. Etowahensis*, † Lea.
Goniobasis Etowahensis, Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 299, t. 37, f. 133, Mar. 1863. Obs. ix. p.
170. *G. translucens*, Anthony, (MSS.)
171. *G. ovoidea*, ‡ Lea.
Melania ovoidea, Lea, Philos. Proc. iv. p. 167, Aug. 1845. Philos. Trans., x. p. 61, t. 9, f. 38. Obs. iv. p. 61. Binney, Check List, No. 193. Brot, List, p. 38.
172. *G. grata*, Anthony.
Melania grata, Anthony, Proc. Acad. Nat. Sci., p. 61, Feb. 1860. Binney, Check List, No. 131. Brot, List, p. 34. Reeve, Monog. Melania, sp. 433.
Goniobasis Prairiensis, § Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 299, t. 37, f. 132., Mar. 1863. Obs. ix. p. 121.
173. *G. quadricincta*, Lea, (MSS.).
174. *G. flava*, Lea.
Goniobasis flava, Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 303, t. 37, f. 139, Mar. 1863. Obs. ix. p. 125.
175. *G. tenebrovittata*, Lea.
Goniobasis tenebrovittata, Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 301, t. 37, f. 136, Mar. 1863. Obs. ix. p. 123.
176. *G. tenera*, Anthony.
Melania tenera, || Anthony, Reeve, Monog. Melania, sp. 407, Apr. 1861. Brot, List, p. 39.
Goniobasis Brumbyi, Lea, Proc. Acad. Nat. Sci., p. 263, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 296, t. 37, f. 127, Mar. 1863. Obs. ix. p. 118.
- G. spurca*, ¶ Lea.
Melania spurca, Lea, Philos. Proc. iv. p. 166, Aug. 1845. Philos. Trans., x. p. 59, t. 9, f. 31. Obs. iv. p. 59. Binney, Check List, No. 248. Brot, List, p. 31.
178. *G. Elliottii*, Lea.
Goniobasis Elliottii, Lea, Proc. Acad. Nat. Sci., p. 271, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 338, t. 38, f. 201, Mar. 1863. Obs. ix. p. 160.

* Preoccupied by Mr. Lea.

† Preoccupied for a nodose species, also from Georgia.

‡ Mr. Reeve's figure 405, intended for this species, represents a species of *Lithasia*.

§ Mr. Lea described this species under the misapprehension that the wider shell, which he now proposes to call *quadricincta*, was the species described as *grata* by Mr. Anthony, whereas, Mr. Anthony's types are of the narrow form.

|| *G. tenera* is the young shell.

¶ Mr. Reeve's figure 340 does not represent this species.

179. *G. palleseens*, Lea.
Melania palleseens, Lea, Philos. Proc. iv. p. 166, Aug. 1845. Philos. Trans., x. p. 63, t. 9, f. 43. Obs. iv. p. 63. Binney, Check List, No. 196. Brot, List, p. 31.
Goniobasis inosculata,* Lea, Proc. Acad. Nat. Sci., p. 270, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 334, t. 38, f. 195, Mar. 1863. Obs. ix. p. 156.
180. *G. parva*, Lea.
Goniobasis parva, Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 297, t. 37, f. 129, Mar. 1863. Obs. ix. p. 119.
181. *G. Ocoëensis*,† Lea.
Melania Ocoëensis, Lea, Philos. Proc. ii. p. 12, Feb. 1841. Philos. Trans., viii. p. 169, t. 5, f. 13. Obs. iii. p. 7. DeKay, Moll. N. Y., p. 94. Troost, Cat. Shells Tennessee. Brot, List, p. 38. Wheatley, Cat. Shells U. S., p. 26. Catlow, Conch. Nomenc. p. 188.
Melania Ocoëensis, Lea, Binney, Check List, No. 186.
Potadoma Ocoëensis, Lea, Chenu. Man. de Conch. i. f. 1969.
182. *G. Anthonyi*, Lea.
Goniobasis Anthonyi, Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 303, t. 37, f. 140, Mar. 1863. Obs. ix. p. 125.
183. *G. Cahawbensis*, Lea.
Melania Cahawbensis, Lea, Proc. Acad. Nat. Sci., p. 121, 1861.
Goniobasis Cahawbensis, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 223, Mar. 1863. Obs. ix. p. 45.
184. *G. Estabrookii*, Lea.
Goniobasis Estabrookii, Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 298, t. 37, f. 131, Mar. 1863. Obs. ix. p. 120.
185. *G. Gabbiana*, Lea.
Goniobasis Gabbiana, Lea, Proc. Acad. Nat. Sci., p. 265, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 304, t. 37, f. 141, Mar. 1863. Obs. ix. p. 126.
186. *G. subsolida*,‡ Lea.
Melania subsolida, Philos. Proc. ii. p. 12, Feb. 1841. Philos. Trans., viii. p. 168, t. 5, f. 12. Obs. iii. p. 6. Troost, Cat. Shells Tenn. Binney, Check List, No. 255. Wheatley, Cat. Shells U. S., p. 27. DeKay, Moll. N. Y., p. 94. Catlow, Conch. Nomenc. p. 188. Brot, List, p. 39.
Melania sordida, Lea, Philos. Proc. ii. p. 12, Feb. 1841. Philos. Trans., viii. p. 170, t. 5, f. 15. Obs., iii. p. 8. DeKay, Moll. N. Y., p. 94. Reeve, Monog. Melania, sp. 449. Jay, Cat. 4th Edit., p. 275. Troost, Cat. Shells Tennessee. Catlow, Conch. Nomenc. p. 188. Wheatley, Cat. Shells U. S., p. 27. Binney, Check List, No. 246. Brot, List, p. 33.
Potadoma sordida, Lea, Chenu, Manuel de Conchyl. i. f. 1971.
Melania perfusca, Lea, Philos. Proc. ii. p. 82, Oct. 1841. Philos. Trans., ix. p. 18. Obs. iv. p. 18. Wheatley, Cat. Shells U. S., p. 26. Jay, Cat. 4th Edit., p. 274. Binney, Check List, No. 201. Brot, List, p. 31. Reeve, Monog. Melania, sp. 354.
Melania incurta, Anthony, Reeve, Monog. Melania, sp. 300. Brot, List, p. 38.
187. *G. claviformis*, Lea.
Melania claviformis, Lea, Philos. Proc. ii. p. 12, Feb. 1841. Philos. Trans., viii. p. 168, t. 5, f. 10. Obs., iii. p. 6. DeKay, Moll. N. Y., p. 93. Jay, Cat. 4th Edit., p. 273. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 25. Reeve, Monog. Melania, sp. 396. Binney, Check List, No. 57. Catlow, Conch. Nomenc. p. 186. Brot, List, p. 37.

*I regard this as the half grown shell of *palleseens*.

†Mr. Reeve's figure 335 does not represent this species.

‡An extensive suite of specimens before me, furnished through the kindness of Messrs. Gould and Haldeman, convinces me that the above descriptions all apply to one variable species.

188. *G. castanea*, Lea.
Melania castanea, Lea, Philos. Proc. ii. p. 11. Philos. Trans., viii., p. 164, t. 5, f. 2. Obs. iii. p. 2. DeKay, Moll. N. Y., p. 92. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 24. Reeve, Monog. Melania, sp. 337.
189. *G. Cumberlandiensi*s, Lea.
*Goniobasis Cumberlandiensi*s, Lea, Proc. Acad. Nat. Sci., p. 155, May, 1863.
190. *G. funebris*,* Anthony.
Melania funebris, Anthony, Proc. Acad. Nat. Sci., p. 56, Feb. 1860. Binney, Check List, No. 114. Brot, List, p. 38. Reeve, Monog. Melania, sp. 372.
191. *G. adusta*, Anthony.
Melania adusta, Anthony, Proc. Acad. Nat. Sci., p. 55, Feb. 1860. Binney, Check List, No. 2. Brot, List, p. 37. Reeve, Monog. Melania, sp. 338.
192. *G. furva*, Lea.
Melania furva, Lea, Philos. Trans., x. p. 299, t. 30, f. 7. Obs., v. p. 55. Binney, Check List, No. 115. Brot, List, p. 38.
193. *G. dubiosa*, Lea.
Melania dubia,† Lea, Philos. Proc. ii. p. 11, Feb. 1841.
Melania dubiosa, Lea, Philos. Trans., viii. p. 166, t. 5, f. 6. Obs. iii. p. 4. DeKay, Moll. N. Y., p. 93. Binney, Check List, No. 91. Troost Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 25. Jay, Cat. 4th Edit., p. 273. Catlow, Conch. Nomencl. p. 186. Brot, List, p. 37.
194. *G. laevigata*,‡ Lea.
Melania laevis, Lea, Philos. Proc. ii. p. 237, Dec. 1842. Philos. Trans., viii. p. 248. Obs. ii. p. 86.
Melania laevigata, Lea, Proc. Philos. Soc. ii. p. 237. Philos. Trans., vii. p. 165, t. 5, f. 3. Obs. iii. p. 3. Wheatley, Cat. Shells U. S., p. 26. Catlow, Conch. Nomencl. p. 187. Reeve, Monog. Melania, sp. 459.
Melania Leai,§ Brot, List, p. 34.
195. *G. interlineata*, Anthony, (MSS.)
196. *G. Ohioensis*, Lea.
Goniobasis Ohioensis, Lea, Proc. Acad. Nat. Sci., p. 265, 1852. Jour. Acad. Nat. Sci., v. pt. 3, p. 306, t. 37, f. 144. Obs. ix. p. 128.
197. *G. brevispira*, Anthony.
Melania brevispira, Anthony, Bost. Proc. iii. p. 361. Dec. 1850. Binney, Check List, No. 39. Jay, Cat. 4th Edit., p. 474. Brot, List, p. 37. Reeve, Monog. Melania, sp. 263.
198. *S. semicarinata*,|| Say.
Melania semicarinata, Say, New Harmony Disseminator, p. 261. Reprint, p. 16. American Conchology, Part 5, t. 47, f. 4. Binney's Reprint, p. 142, 200. Binney, Check List, No. 240. DeKay, Moll. N. Y., p. 100. Reeve, Monog. Melania, sp. 363. Wheatley, Cat. Shells U. S. p. 27. Jay, Cat. Shells 4th Edit., p. 275. Catlow, Conch. Nomencl. p. 188. Brot, List, p. 38. Kennicott, Trans. Ills. State Agricul. Soc. p. 595.

* Narrower and more lengthened than the nearly allied *G. adusta*. It has not the pale yellowish sutural band of that species.

† Preoccupied.

‡ I doubt whether this is more than an immature stage of *dubiosa*.

§ Proposed by Mr. Brot, because *laevigata* is preoccupied in *Melania*; but that name must stand, as it is not preoccupied in *Goniobasis*.

|| The shells included in the above extensive synonymy present some variation in form and coloration, but in an examination of several thousand specimens I was unable to separate the so-called species satisfactorily. *G. semicarinata*, Say, is the young shell, which, when old, varies in form, being narrow in *angustispira* and *exilis*, and broader in the other synonyms. The species inhabits an extensive range of country.

- Melania angustispira*, Anthony, Proc. Acad. Nat. Sci., p. 55, Feb. 1860. Binney, Check List, No. 16. Brot, List, p. 37.
- Melania angusta*, Anthony, Reeve, Monog. Melania, sp. 359.
- Melania exilis*, Haldeman, suppl. to No. 1 Monog. Limniades, Oct. 1840.
- Melania rufula*, Haldeman, Monog. Limniades, No. 2, p. 3 of Cover, January, 1841. Binney, Check List, No. 234. Brot, List, p. 39.
- Melania Kirtlandiana*, Lea, Philos. Proc. ii. p. 11, Feb. 1841. Philos. Trans., viii., p. 165, t. 5, f. 4. Obs. iii. p. 3. Anthony, Cat. 1st Edit. Higgins, Cat. DeKay, Moll. N. Y., p. 92. Wheatley, Cat. Shells U. S., p. 25. Reeve, Monog. Melania, sp. 361. Binney, Check List, No. 155. Brot, List, p. 36. Catlow, Conch. Nomenc, p. 187.
- Melania Kirtlandia*, Lea, Philippi, Beschreib. Neuer Conchyl. Melania, t. 3. f. 8.
- Melania elata*, Anthony, Bost. Proc. iii. p. 362, Dec. 1850. Binney, Check List, No. 95. Brot, List, p. 37. Reeve, Monog. Melania, sp. 331.
- Melania bicolorata*, Anthony, Bost. Proc. iii. p. 361, Dec. 1850. Binney, Check List, No. 32. Brot, List, p. 58.
- Melania bicolor*, Anthony, Reeve, Monog. Melania, sp. 265.
- Melania inornata*, Anthony, Bost. Proc. iii. p. 360. Dec. 1850.
- Melania succinulata*, Anthony, Bost. Proc. iii. p. 363, Dec. 1850. Binney, Check List, No. 258. Brot, List, p. 59.
- Melania varicosa*, Ward, Haldeman, Monog. Limniades, Part iii. p. 3 of Cover, Mar. 13, 1854. Anthony, List, 1st and 2d Editions. Jay, Cat. 4th Edit., p. 275. Binney, Check List, No. 284. Catlow, Conch. Nomenc. p. 189.
- Melania livida*, Reeve, Monog. Melania, sp. 434. Brot, List, p. 30.
- Goniobasis Grosvenorii*, Lea, Proc. Acad. Nat. Sci., p. 263, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 297, t. 37, f. 128, Mar. 1863. Obs. ix. p. 119.
- Melania babylonica*,* Lea, Philos. Proc. ii. p. 14, Feb. 1841. Philos. Trans., viii. p. 183, t. 6, f. 43. Obs. iii. p. 21. DeKay, Moll. N. Y., p. 98. Wheatley, Cat. Shells U. S. p. 24. Binney, Check List, No. 26. Catlow, Conch. Nomenc. p. 185. Brot, List, p. 36.
199. *G. Haldemani*, Tryon, (MSS.)
- Melania acuta*, Lea, Bell, Canadian Nat. iv. pt. 3, p. 213. Lewis, Bost. Proc. vi. p. 2.
- Melania exilis*, Haldeman, Adams, Moll. Vermont.
200. *G. curvilabris*, Anthony.
- Melania curvilabris*, Anthony, Ann. N. Y. Lyc. Nat. Hist. vi. p. 102, t. 3, f. 1, Mar. 1854. Binney, Check List, No. 82. Brot, List, p. 31. Reeve, Monog. Melania, sp. 378.
201. *G. informis*, Lea.
- Goniobasis informis*, Lea, Proc. Acad. Nat. Sci., p. 154, May, 1863.
202. *G. vittatella*, Lea.
- Goniobasis vittatella*, Lea, Proc. Acad. Nat. Sci., p. 155, May, 1863.
203. *G. Alexandrensis*, Lea.
- Melania Alexandrensis*, Lea, Philos. Proc. iv. p. 167. Philos. Trans., x. p. 61, t. 9, f. 37. Obs. iv. p. 61. Binney, Check List, No. 8. Brot, List, p. 37.
204. *G. Haleiana*, Lea.
- Melania Haleiana*, Lea, Philos. Proc. iv. p. 167, Aug. 1845. Philos. Trans., x. p. 60. t. 9, f. 35. Obs. iv. p. 60. Binney, Check List, No. 134. Reeve, Monog. Melania, sp. 406.
205. *G. rubella*, Lea.
- Goniobasis rubella*, Lea, Proc. Acad. Nat. Sci., p. 270, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 332, t. 38, f. 191, Mar. 1863. Obs. ix. p. 154.

*A scalariform monstrosity.

206. *G. spinella*, Lea.
Goniobasis spinella, Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sc., v. pt. 3, p. 298, t. 37, f. 130, Mar. 1863. Obs. ix. p. 120.
207. *G. Draytonii*, Lea.
Goniobasis Draytonii, Lea, Proc. Acad. Nat. Sci., p. 264, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 300, t. 37, f. 134, March, 1863. Obs. ix. p. 122.
Goniobasis nigrina, Lea, Proc. Acad. Nat. Sc., p. 263, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 299, t. 37, f. 133. Obs. ix. p. 121.
208. *G. proxima*, Say.
Melania proxima, Say, Jour. Acad. Nat. Sci., p. 126, Sept. 1825. Reeve, Monog. Melania, sp. 275. Binney's Edit. of Say, p. 115. Binney, Check List, No. 220. DeKay, Moll. N. Y., p. 99. Wheatley, Cat. Shells U. S., p. 26. Gibbs' Report, p. 19. Jay, Cat. 4th Edit., p. 274. Brot, List, p. 38.
Melania carinata,* Ravenel, Cat. p. 11, 1834. Wheatley, Cat. Shells U. S., p. 24. Binney, Check List, No. 47.
Melania Taitiana, Lea, Philos. Proc., ii. p. 11, Feb., 1841. Philos. Trans. viii. p. 165, t. 5, f. 5. Obs. iii. p. 3. DeKay, Moll. N. Y., p. 92. Wheatley, Cat. Shells U. S., p. 27. Jay, Cat., 4th edit., p. 275. Binney, Check List, No. 264. Catlow, Conch. Nomencl., p. 189. Reeve, Monog. Melania, sp. 444. Brot, List, p. 37.
Melania rufa, Lea, Philos. Proc., ii. p. 12, Feb., 1841. Philos. Trans., viii. p. 167, t. 5, f. 8. Obs. iii. p. 5. Troost, Cat. Shells Tennessee. Wheatley, Cat. Shells U. S., p. 26. Catlow, Conch. Nomencl., p. 188.
Melania rufescens, Lea, DeKay, Moll. N. Y., p. 93. Jay, Cat., 4th edit., p. 274. Binney, Check List, No. 233. Brot, List, p. 37.
Melania approximata, Haldeman, Monog. Limniades, No. 4, p. 4 of Cover, Dec. 28, 1841. Jay, Cat., 4th edit., p. 272. Binney, Check List, No. 18. Brot, List, p. 36.
Melania abjecta,† Haldeman, Reeve, Monog. Melania, sp. 341. Brot, List, p. 34.
Goniobasis rubricata, Lea, Proc. Acad. Nat. Sci., p. 271, 1862. Jour. Acad. Nat. Sci. v. pt. 3, p. 335, t. 38, f. 197. Obs. ix. p. 157, t. 38, f. 197.

I. *Striate species, spire elevated.*

209. *G. Virginica*, Gmelin.
Buccinum Virginica, Gmelin, Syst. Nat. Green, Trans., Alb. Inst., i. p. 135. Wood, Index Test., t. 24, f. 154.
Paludina Virginica, Say, Nicholson's Encyc., iii. t. 2, f. 4.
Melania Virginica, Say, Am. Conch., pt. 5, t. 47, f. 2. App. to Long's Exped., ii. p. 265. Binney's Edit., p. 131 and 199. Binney, Check List, No. 291. Catlow, Conch. Nomencl., p. 189. Philippi, Neüer Conchylien Melania, t. 2, f. 12. Hildreth, Am. Jour. Science, xxxi. p. 53. Sager, Rept. Zool. Mich., p. 15. Conrad, Am. Jour. Science, N. S., i. p. 407. Haldeman, Rupps Hist. Lancaster County, Pa., p. 479. Haldeman, Am. Jour. Sci., xli. p. 22. DeKay, Moll. N. Y., p. 90, t. 7, f. 141. Wheatley, Cat. Shells U. S., p. 27. Hartman, Catalogue Shells Chester Co., Pa. Brot, List, p. 35. Girard, Proc. National Inst., i. No. 2, p. 82. Jay, Cat., 4th edit., p. 275. Reeve, Monog. Melania, sp. 321.
Limnæa Virginica, Say, Short and Eaton, Notices, p. 82.
Juga Virginica, Say, Chenu, Man. de Conchyl. i. f. 2019.
Melania multilineata, Say, Jour. Acad. Nat. Sci., ii. p. 380, Dec. 1822. Am.

*I make this a synonym on the authority of Dr. Jay.

†I doubt whether this shell really came from Arkansas, although the established geographical distribution of *proxima* is very great.

- Conchology, pt. 5, t. 47, f. 2. Binney's Edit., p. 111 and 199. Binney, Check List, No. 169. DeKay, Moll. Rept. to Regents, p. 32. Moll. N. York, p. 97. Wheatley, Cat. Shells U. S., p. 26. Hartman, Cat. Shells Chester Co., Penna. Catlow, Conch. Nomencl., p. 187. Girard, Proc. Nat. Inst., i. No. 2, p. 82, March, 1856. Philippi, Neuer Conchyl. *Melania*, t. 2, f. 13.
- Melania auriscalptum*,* Menke.
- Melania curta*, Menke, Syn. Meth., p. 135, 1830.
- Melania fasciata*, Menke, Syn. Meth., p. 136, 1830.
- Melania bizonalis*, DeKay, Moll. N. Y., p. 91, t. 7, f. 140, a. b. 1843. Binney, Check List, No. 35.
- Melania Buddii*, DeKay, Wheatley, Cat. Shells U. S., p. 24.
- Melania gemma*,† DeKay, Moll. N. Y., p. 91, t. 7, f. 142, 1843. Binney, Check List, No. 119. Brot, List, p. 38.
- Melania strigilata*, Muhlfeldt,‡ in Litt.
- Melania inemta*, Anthony, Bost. Proc., iii., p. 362, Dec., 1850. Binney, Check List, No. 145. Brot, List, p. 58.
210. *G. sulcosa*, Lea.‡
Melania sulcosa, Lea, Philos. Proc. ii. p. 14, Feb., 1841. Philos. Trans., viii. p. 185, t. 6, f. 48. DeKay, Moll. N. Y., p. 99. Troost, Cat. Shells Tenn. Catlow, Conch. Nomencl., p. 189. Binney, Check List, No. 259. Wheatley, Cat. Shells U. S., p. 27. Brot, List, p. 35.
- Ceriphasia sulcosa*, Lea, Chenu, Man. de Conchyl. i. f. 1957.
211. *G. Buddii*, Lea.
Melania Buddii, Lea, Philos. Proc. iv. p. 165. Philos. Trans. x. p. 64, t. 9, f. 44. Obs. iv. p. 64. Binney, Check List, No. 42. Jay, Cat., 4th Edit., p. 273. Reeve, Monog. *Melania*, sp. 324.
212. *G. Troostiana*, Lea.
Melania Troostiana, Lea, Philos. Proc., ii. p. 34, April, 1841. Philos. Trans., p. 92, t. 23, f. 86. Obs. ii. p. 92. DeKay, Moll. N. York, p. 100. Wheatley, Cat. Shells U. S., p. 27. Binney, Check List, No. 276. Troost, Cat. Shells Tenn. Jay, Cat., 4th Edit., p. 275. Catlow, Conch. Nomencl., p. 189. Brot, List, p. 35. Reeve, Monog. *Melania*, sp. 339.
213. *G. latitans*, Anthony.
Melania latitans, Anthony, Ann. Lyc. Nat. Hist. New York, vi. p. 88, t. 2, f. 6, March, 1854. Binney, Check List, No. 159. Brot, List, p. 34.
214. *G. porrecta*, Lea.
Goniobasis porrecta, Lea, Proc. Acad. Nat. Sci., p. 155, May, 1863.
215. *G. sculptilis*, Lea.
Melania sculptilis, Lea, Philos. Trans., x. p. 297, t. 30, f. 3. Obs. v. p. 53, t. 30, f. 3. Binney, Check List, No. 238. Brot, List, p. 38.
216. *G. crenatella*, Lea.
Melania crenatella, Lea, Proc. Acad. Nat. Sci., v. pt. 3, p. 268, t. 35, f. 79, March, 1863. Obs. ix. p. Binney, Check List, No. 76. Brot, List, p. 34. Reeve, Monog. *Melania*, sp. 457.

* Prof. Haldeman was the first naturalist who identified the various descriptions of Menké with *Virginica*. Philippi has since figured some of these as varieties of that species.

† This shell has been referred both to *Virginica* and to *depygis* by American Authors. I do not give a confident opinion as to its proper place. About *bizonalis* of DeKay there can be no doubt.

‡ Teste Philippi, Neuer Conchyl.

§ When perfect specimens of this shell are obtained, it may prove to be a *Pleurocera* instead of a *Goniobasis*.

[Feb.